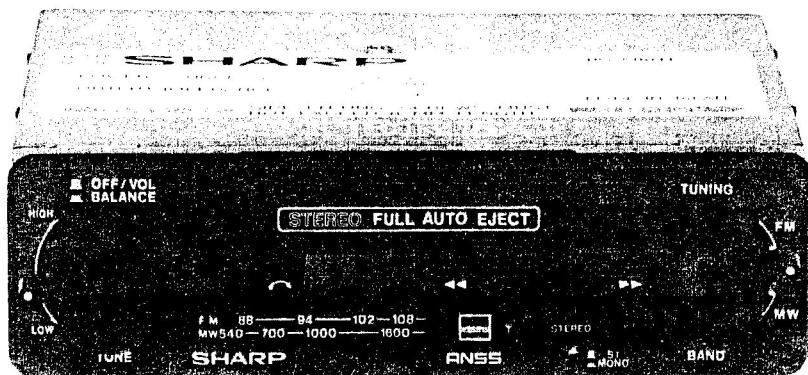




Service Manual



Solid State In-dash Type Cassette Car Stereo Player with MW/FM/FM Stereo Radio

MODEL RG-5801E

"Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used."

SPECIFICATIONS

GENERAL

Type Solid State In-dash Type 4-Track 2-channel Full Auto Stop/Auto Eject Cassette Car Stereo Player with built-in MW/FM/FM STEREO 2-band Radio
Power source 12 V (for negative earthing car only)
Output impedance 4 ohms/channel
Semiconductors 17-transistor (1-FET), 16-diode (1-LED) and 5-IC (integrated circuit)
Output power 8 + 8 W (maximum power)
 5 W + 5 W (at 10% distortion)
S/N 54 dB
Dimensions 178 (W) x 130 (D) x 44 (H) mm
Weight 1.2 kg

TAPE PLAYER SECTION

Playback system 4-track, 2-channel Stereo

Using tape Philips standard compact cassette tape
Tape speed 4.75 cm/sec.
Wow and flutter 0.3% (CCIR W.R.M.S.)
Frequency response 125Hz ~ 6.3kHz/-6dB
Fast forward time 120 ± 30 seconds
 (@ C-60 cassette tape)
Rewind time 120 ± 30 seconds
 (@ C-60 cassette tape)
Motor D.C. motor with mechanical governor

RADIO SECTION

Frequency range MW 525 ~ 1,605kHz
 FM 87.6 ~ 108MHz
IF MW 452kHz
 FM 10.7MHz
Sensitivity MW 40µV (S/N : 20 dB)
 FM 4µV (S/N : 30 dB)

SHARP CORPORATION OSAKA, JAPAN

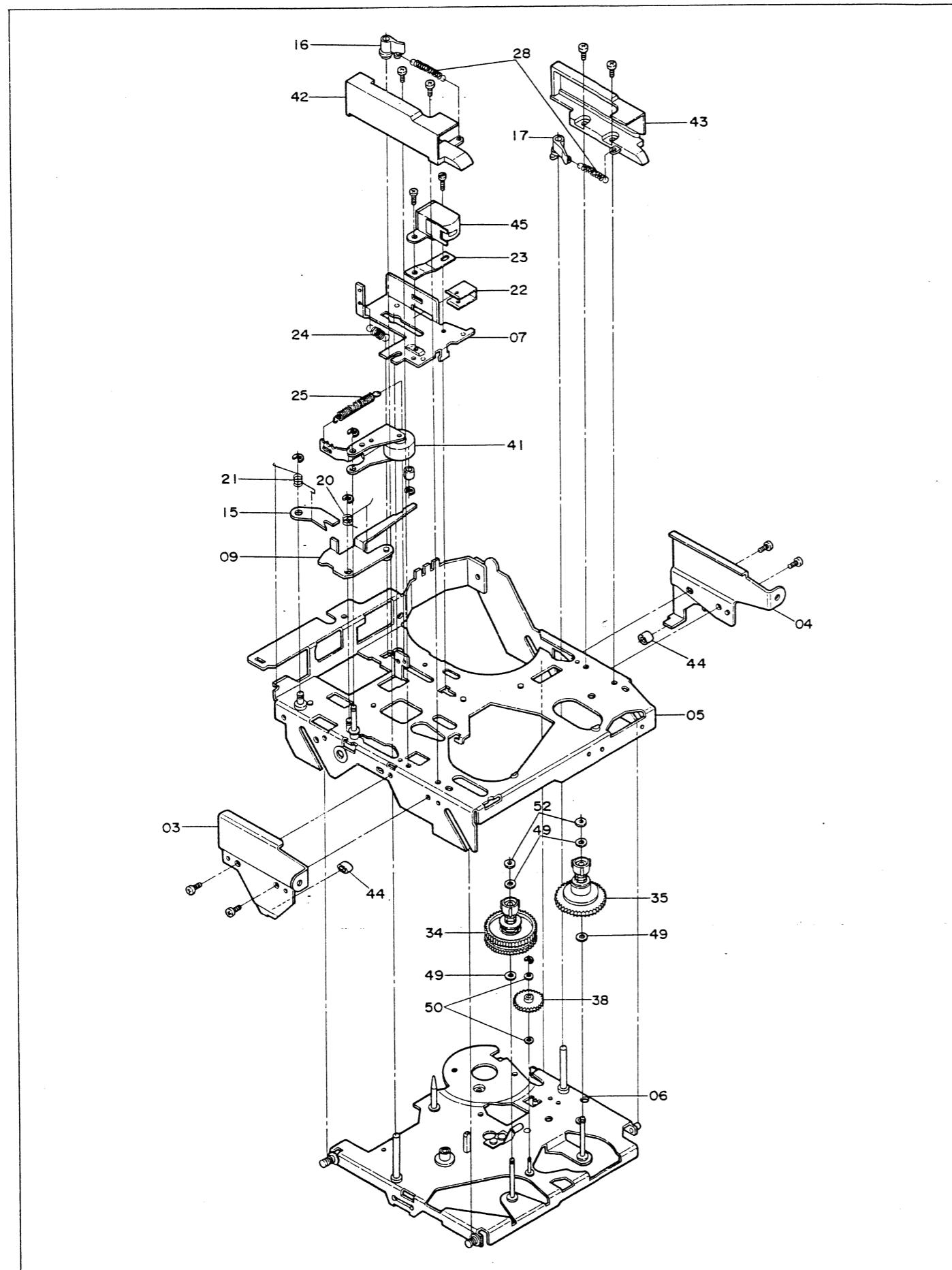


Figure 24 MECHANISM EXPLODED VIEW (UPPER SIDE)

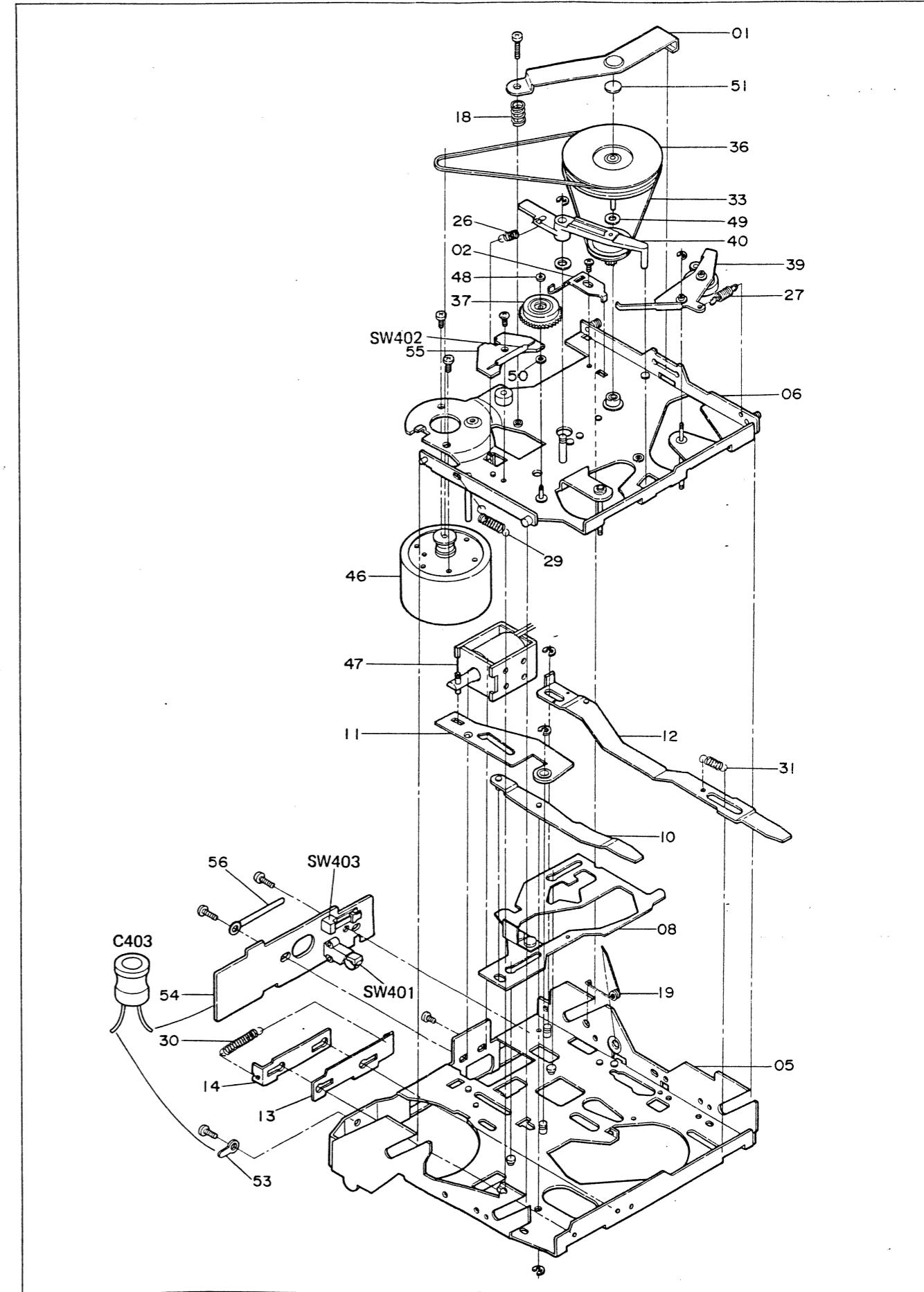


Figure 25 MECHANISM EXPLODED VIEW (LOWER SIDE)

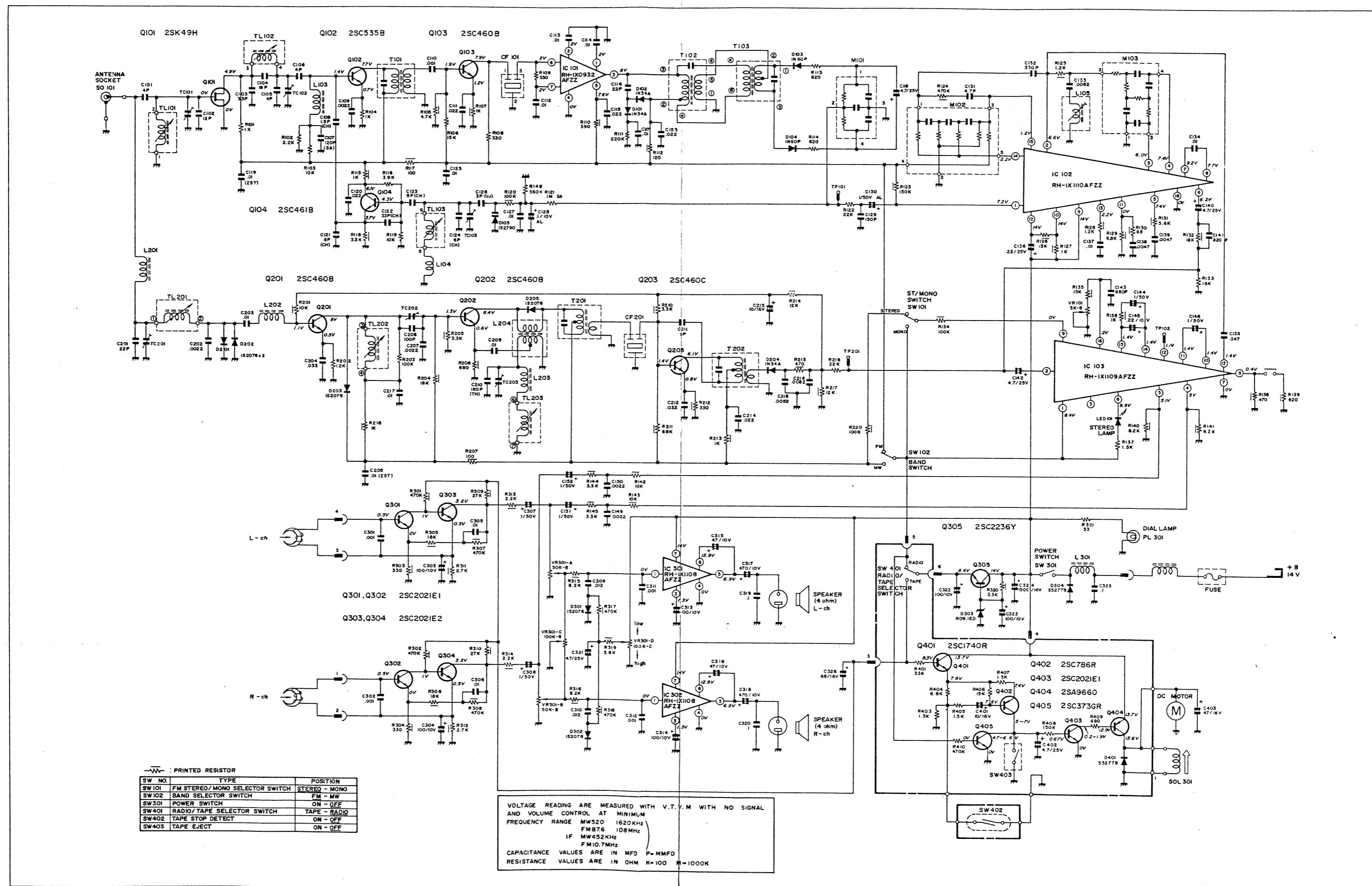


Figure 26 SCHEMATIC DIAGRAM

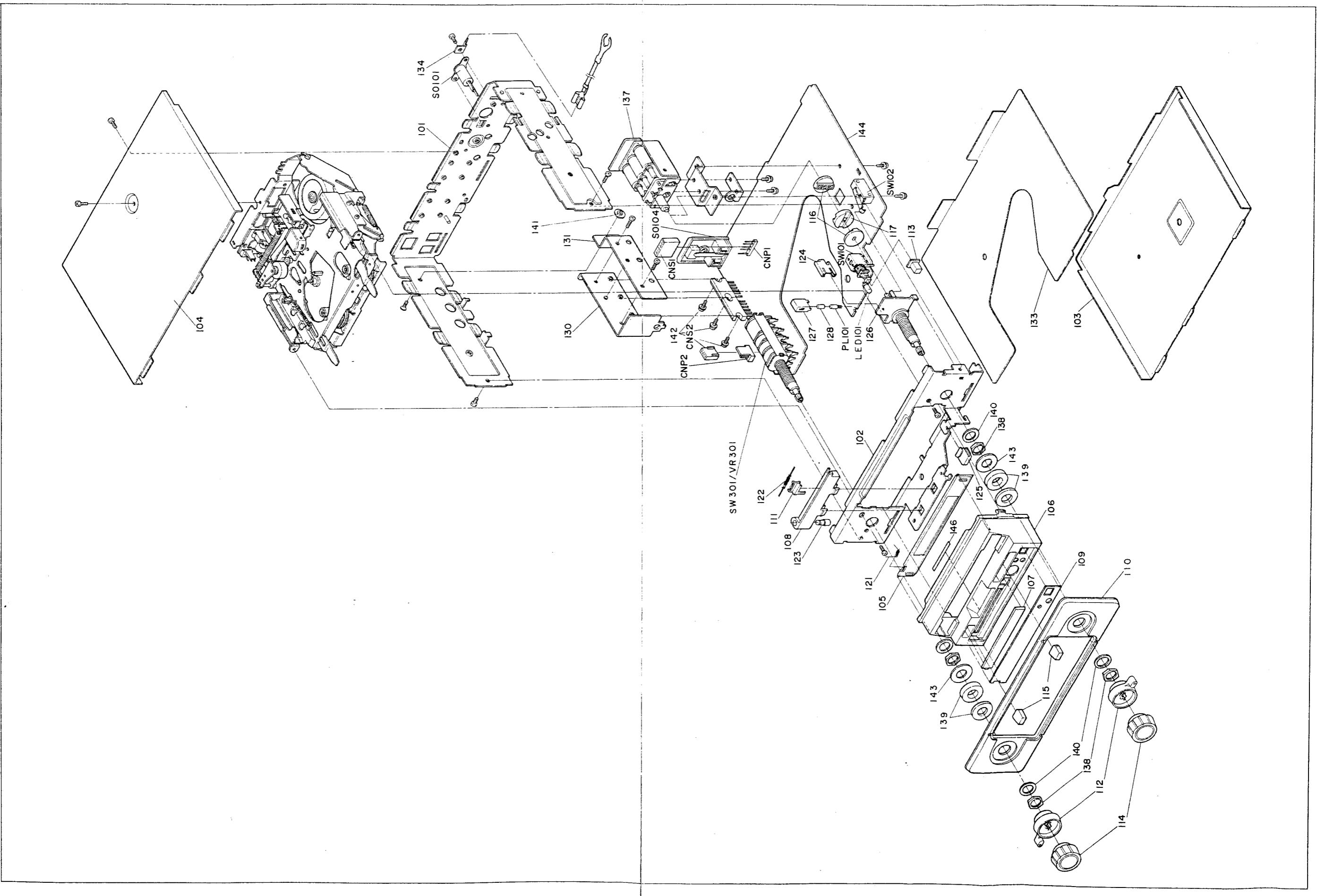


Figure 28 CABINET EXPLODED VIEW

REPLACEMENT PARTS LIST

PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER 2. REF. NO.
3. PART NO. 4. DESCRIPTION

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
INTEGRATED CIRCUITS							
COILS							
IC101	RH-IX0932AFZZ	FM IF Amp. (BA402)	AM	L103	RCILC0067AFZZ	FM RF	**
IC102	RH-IX1101AFZZ	ANSS (HA11219)	AM	L104	RCILR0191AFZZ	FM Oscillation	AA
IC103	RH-IX1109AFZZ	PLL FM Stereo Demodulator (BA1330)	AM	L105	RCILZ0061AFZZ	Power Filter	AE
IC301	RH-IX1108AFZZ	Audio Power Amp. (μPC1182H)	AN	L201	RCILC0065AFZZ	Choke	AC
IC302	RH-IX1108AFZZ	Audio Power Amp. (μPC1182H)	AN	L202	RCILC0051AFZZ	Noise	AC
				L203	RCILC0065AFZZ	AM Oscillation	AC
				L204	RCILB0322AFZZ	AM Oscillation	AD
				L301	RCILF0067AFZZ	Choke	AD
TRANSISTORS							
TRANSFORMERS							
Q101	VS2SK49-H/-1	FM RF Amp. (2SK49H)	AF	T101	RCILI0157AFZZ	FM IF	AE
Q102	VS2SC535-B/-1	FM Mixer (2SC535B)	AD	T102	RCILI0235AFZZ	FM Discriminator	AE
Q103	VS2SC460-B/-1	FM IF 1st AMP. (2SC460B)	AC	T103	RCILI0234AFZZ	FM Discriminator	AD
Q104	VS2SC461-B/-1	FM Oscillator (2SC461B)	AC	T201	RCILI0238AFZZ	AM IF	AD
Q201	VS2SC460-B/-1	AM RF AMP. (2SC460B)	AC	T201	RCILI0244AFZZ	AM IF \triangle Only	AD
Q202	VS2SC460-B/-1	AM Converter (2SC460B)	AC	T202	RCILI0170AFZZ	AM IF	AD
Q203	VS2SC460-C/-1	AM IF AMP. (2SC460C)	AC				
Q301	VS2SC2021E11F	Tape Pre Amp. (2SC2021E1)	AB				
Q302	VS2SC2021E11F	Tape Pre Amp. (2SC2021E1)	AB				
Q303	VS2SC2021E21F	Tape Pre Amp. (2SC2021E2)	AB	CF101	RFILF0009AFZZ	Ceramic, 10.7MHz, FM IF	AE
Q304	VS2SC2021E21F	Tape Pre Amp. (2SC2021E2)	AB	CF201	RFILA0059AFZZ	Ceramic, 452kHz, AM IF	AD
Q305	VS2SC2236Y/-1	Voltage Regulator (2SC2236Y)	**				
Q401	VS2SC2021E11F	Solenoid Control (2SC2021S)	AB				
Q402	VS2SA786-R/-1	Solenoid Drive (2SA786R)	AC				
Q403	VS2SC2021E11F	Solenoid Control (2SC2021E1)	AB				
Q404	VS2SA966-O/-1	Solenoid Drive (2SA966O)	**	M101	RMPTA0105AFZZ	6.8K ohm x 2 + 220PF x 3	AC
Q405	VS2SC2021E11F	Solenoid Control (2SC2021E1)	AB	M102	RMPTA0106AFZZ	2K ohm x 2 + 2.7K ohm + 22K	AF
				M103	RMPTA0107AFZZ	4.7K ohm x 4 + 68PF + 680PF x 2 + 1200PF	AC
DIODES							
CONTROLS							
D101	VHD1N34A//1	Noise Limiter (1N34A)	AC	VR101	RVR-M0003SGZZ	5K ohm (B), VCO Frequency Adjustment	AC
D102	VHD1N34A//1	Noise Limiter (1N34A)	AC				
D103	VHD1N60///3	FM Detector (1N60)	AH				
D104	VHD1N60///3	FM Detector (1N60)	AH	VR301	RVR-B0165AFZZ	Volume/Tone/Balance Control and Power Switch	AS
D105	VHC1S2790-Y-1	FM AFC (1S2790)	AD	(A-D)			
D201	VHD1S2076//1	Protector (1S2076)	AG	SW301			
D202	VHD1S2076//1	Protector (1S2076)	AG	TC101	RTO-H1056AFZZ	Trimmer, FM Antenna	**
D203	VHD1S2076//1	AM Overload (1S2076)	AG	TC102	RTO-H1056AFZZ	Trimmer, FM RF	**
D204	VHD1N34A//1	AM Detector (1N34A)	AC	TC103	RTO-H1057AFZZ	Trimmer, FM Oscillator	**
D205	VHD1S2076//1	AM Converter (1S2076)	AG	TC201	RTO-A1053AFZZ	Trimmer, AM Antenna	AD
D301	VHD1S2076//1	TONE (1S2076)	AG	TC202	RTO-H1019AGZZ	Trimmer, AM RF	AD
D302	VHD1S2076//1	TONE (1S2076)	AC	TC203	RTO-A1052AFZZ	Trimmer, AM Oscillator	AD
D303	VHERD9.1ED//1	Zener (Voltage Regulator) (RD9.1ED)	AC				
D304	VHDS5277B//1	Protector (S5277B)	AB				
D401	VHDS5277B//1	Protector (S5277B)	AB				
LED101	VHPGL-SPRS/1F	Stereo indicator (GL-SPRS)	AD	C101	VCCSPU1HL4R0C	4PF, 50V, ± 0.25 PF, Ceramic	AA
CAPACITORS							

** ; Price will be quoted upon receipt of order.

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
C102	VCCSPU1HL120J	12PF, 50V, $\pm 5\%$, Ceramic	AA	C325	VCKZPU1HF104Z	.1MFD, 50V, +80 -20%, Ceramic	AC
C103	VCCSPU1HL330J	33PF, 50V, $\pm 5\%$, Ceramic	AA				
C104	VCCSPU1HL180J	18PF, 50V, $\pm 5\%$, Ceramic	AA				
C105	VCCSPU1HL4R0C	4PF, 50V, ± 0.25 PF, Ceramic	AA				
C106	VCCSPU1HL4R0C	4PF, 50V, ± 0.25 PF, Ceramic	AA	C118	VCEAAU1EW475A	4.7MFD, 25V, +75 -10%	AB
C107	VCRYPU1HB121J	120PF, 50V, $\pm 5\%$, Ceramic	AA	C128	VCAAAU1AB104M	.1MFD, 10V, $\pm 20\%$	AC
C108	VCCCPUIHH1R5C	1.5PF, 50V, ± 0.25 PF, Ceramic	AA	C130	VCEALU1HW105M	1MFD, 50V, $\pm 20\%$	AD
C109	VCTYPU1EX222M	.0022MFD, 25V, $\pm 20\%$, Ceramic	AA	C136	VCAAAU1EB224K	.22MFD, 25V, $\pm 10\%$	AC
C110	VCQYKU1HM102M	.001MFD, 50V, $\pm 20\%$, Mylar	AC	C140	VCEAAU1EW475A	4.7MFD, 25V, +75 -10%	AB
C111	VCQYKU1HM223M	.022MFD, 50V, $\pm 20\%$, Mylar	AB	C142	VCEAAU1EW475A	4.7MFD, 25V, +75 -10%	AB
C112	VCTYPU1EX103M	.01MFD, 25V, $\pm 20\%$, Ceramic	AA	C144	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C113	VCTYPU1EX103M	.01MFD, 25V, $\pm 20\%$, Ceramic	AA	C145	VCAAAU1AB224M	.22MFD, 10V, $\pm 20\%$	AC
C114	VCTYPU1EX103M	.01MFD, 25V, $\pm 20\%$, Ceramic	AA	C146	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C115	VCTYPU1EX223M	.022MFD, 25V, $\pm 20\%$, Ceramic	AA	C151	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C116	VCCSPU1HL220J	22PF, 50V, $\pm 5\%$ Ceramic	AA	C152	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C117	VCTYPU1EX103M	.01MFD, 25V, $\pm 5\%$ Ceramic	**	C215	VCEAAU1CW106Y	10MFD, 16V, +50 -10%	AB
C119	VCKYPU1SD103Z	.01MFD, 30V, +80 -20%, Ceramic	AA	C303	RC-EZS107AF1A	100MFD, 10V, +30 -10%	AB
C120	VCTYPU1EX223M	.022MFD, 25V, $\pm 20\%$, Ceramic	AA	C304	RC-EZS107AF1A	100MFD, 10V, +30 -10%	AB
C121	VCCCPUIHH8R0D	8PF, 50V, ± 0.5 PF, Ceramic	AB	C308	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C122	VCCCPUIHH330J	33PF, 50V, $\pm 5\%$ Ceramic	AB	C313	RC-EZS107AF1A	100MFD, 10V, +30 -10%	AB
C123	VCCCPUIHH8R0D	8PF, 50V, ± 0.5 PF, Ceramic	AB	C314	RC-EZS107AF1A	100MFD, 10V, +30 -10%	AB
C124	VCCRPUIHH6R0C	6PF, 50V, ± 0.25 PF, Ceramic	AA	C315	RC-EZS476AF1A	47MFD, 10V, +30 -10%	AB
C125	VCTYPU1EX103M	.01MFD, 25V, $\pm 20\%$, Ceramic	AA	C316	RC-EZS476AF1A	47MFD, 10V, +30 -10%	AB
C126	VCCUPU1HJ3R0C	3PF, 50V, ± 0.25 PF, Ceramic	AB	C317	RC-EZS477AF1A	470MFD, 10V, +30 -10%	AC
C127	VCTYAT1EX103N	.01MFD, 25V, $\pm 30\%$, Ceramic	AA	C318	RC-EZS477AF1A	470MFD, 10V, +30 -10%	AC
C129	VCCSPU1HL151J	150PF, 50V, $\pm 5\%$, Ceramic	AA	C321	VCEAAU1EW475A	4.7MFD, 25V, +75 -10%	AB
C131	VCCSAT1HL4R7C	4.7PF, 50V, ± 0.25 PF, Ceramic	**	C322	RC-EZS107AF1A	100MFD, 10V, +30 -10%	AB
C132	VCKYAT1HB331K	330PF, 50V, $\pm 10\%$, Ceramic	**	C323	RC-EZS107AF1A	100MFD, 10V, +30 -10%	AB

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
R410	VRD-SU2EE474J	470K ohm,	AA	52	LX-WZ9058AFZZ	Washer, Lock	AA
MECHANICAL PARTS							
01	LANGF0437AFZZ	Bracket, Flywheel	AB	53	QHWS-3206AGFN	Lug Terminal	AA
02	LANGF0438AFZZ	Pushing Arm Radio/Tape Selector Switch	AB	54	QPWBF0785AFZZ	Printed Wiring Board, Mechanism Control	(P.W.B)
03	LANGF0439AFZZ	Bracket, Mechanism Mounting (L)	AC	55	QPWBF0756AFZZ	Printed Wiring Board, Lead Switch	only
04	LANGF0440AFZZ	Bracket, Mechanism Mounting (R)	AC	56	LHLDW3003AFZZ	Wire Holder	N.A.
MISCELLANEOUS							
05	LCHSM0297AFZZ	Chassis, Fixed		101	GCAB-3055AFFW	Cabinet, Rear	AH
06	LCHSM0298AFZZ	Chassis, Sliding		102	GCABB3476AFFW	Cabinet, Front	AE
07	LCHSS0133AFZZ	Head Base		103	GCABC3476AFFW	Cabinet, Bottom	AE
08	MLEVF0818AFZZ	Lever, Fast Forward/Rewind	AB	104	GCABD3476AFFW	Cabinet, Top	AE
09	MLEVF0819AFZZ	Lever, Fast Forward/Rewind Lock	AA	105	GFTAC1081AFSA	Cassette Door	AE
10	MLEVF0820AFZZ	Lever, Fast Forward/Rewind	AA	106	GWAKP1073AFSA	Nose Piece	AF
11	MLEVF0821AFZZ	Lever, Play Lock	AA	107	HDALP0395AFSA	Dial Scale	AD
12	MLEVF0822AFZZ	Lever, Eject	AA	108	HDAP-0174AF00	Dial Back Plate	AC
13	MLEVF0823AFZZ	Lever, Fast Forward Return	AB	109	HINDP0129AFSA	Indication Plate	AF
14	MLEVF0824AFFW	Lever, Rewind Return	AB	110	HPNLC1243AFSA	Panel	AG
15	MLEVF0825AFZZ	Lever, Eject Prevent	AA	111	HSSND0242AFSA	Dial Pointer	AB
16	MLEVP0116AFZZ	Lever, Cassette Ejector (L)		112	JKNBK0167AFSA	Knob, Tone Control and Band Selector	AD
17	MLEVP0117AFZZ	Lever, Cassette Ejector (R)		113	JKNBM0262AFSA	Knob, FM Stereo/Mono Selector	AB
18	MSPRC0168AFFJ	Spring, Flywheel Thrust Adjust	AA	114	JKNBN0363AFSA	Knob, Power Switch/Volume/Balance and Tuning Control	AD
19	MSPRD0193AFFJ	Spring, Sliding Chassis Return (L)	AB	115	JKNBP0066AFSA	Knob, Eject and FF/REW	AC
20	MSPRD0194AFFJ	Spring, Fast Forward/Rewind Lock Lever	AA	116	NIDR-0063AFZZ	Joint, Tuning	**
21	MSPRD0195AFFJ	Spring, Eject Prevent Lever	AA	117	NIDR-0064AFZZ	Joint, Tuning	**
22	MSPRP0189AFFJ	Spring, Head Base Pressure	AB	121	MSPRD0180AFFJ	Spring, Cassette Door	AA
23	MSPRP0190AFFJ	Spring, Head Azimuth Adjust	AB	122	MSPRT0321AFFJ	Spring, Dial Cord	AA
24	MSPRT0538AFFJ	Spring, Head Base	AA	123	NPLYC0103AFFW	Dial Cord Guide	AB
25	MSPRT0539AFFJ	Spring, Pinch Roller	AB	124	NPLYD0050AF00	Dial Cord Guide	AB
26	MSPRT0540AFFJ	Spring, Rewind Gear	AA	125	NPLYD0051AF00	Dial Cord Guide	AB
27	MSPRT0541AFFJ	Spring, Fast Forward Roller	AA	126	NSFTZ0066AFZZ	Shaft, Tuning Control/Band Selector	AK
28	MSPRT0542AFFJ	Spring, Cassette Ejector Lever	AA	127	PCOVU3111AFFW	Lamp Cover	AB
29	MSPRT0543AFFJ	Spring, Sliding Chassis Return (R)	AB	128	PCOVZ8055AFZZ	Lamp Cover, Green	AA
30	MSPRT0544AFFJ	Spring, Fast Forward/Rewind Lever	AA	130	PRDAR0167AFFW	Heat Sink	AA
31	MSPRT0545AFFJ	Spring, Eject Lever	AA	131	PRDAR0175AFFW	Heat Sink	AD
32	NBLTK0127AFZZ	Belt, Flywheel Drive	AC	133	PZETF0133AFZZ	Insulator	AC
33	NBLTK0128AFZZ	Belt, Rewind Gear	AC	134	QLUGL0150AFZZ	Ground Terminal	AB
34	NDAIR0130AFZZ	Turntable, Take-up	AC	137	RTUNC0126AFZZ	Tuner Unit	**
35	NDAIR0131AFZZ	Turntable, Supply	AC	138	LX-NZ0058AFFW	Nut, ϕ 9	AA
36	NFLYC0070AFZZ	Flywheel	AF	139	PSPA0074AFZZ	Spacer, Plastic	AD
37	NPLYR0062AFZZ	Ring Magnet	AF	140	XWHS92-05140	Washer, ϕ 9.2	AA
38	NROLP0057AFZZ	Gear, Play	AG	141	LX-NZ0008SGFD	Nut, ϕ 3	AA
39	NROLV0010AFZZ	Roller Assembly, Fast Forward	AG	142	LX-HZ0001SGFD	Screw with Washer	—
40	NROLX0010AFZZ	Gear Assembly, Rewind	AE	143	PSPAF0052AFFW	Spacer, Metal	AA
41	NROLY0017AFZZ	Pinch Roller Assembly	AE	144- 	QPRBF0085AFZZ	Printed Wiring Board Printed Resistors (Board only)	N.A.
42	PGIDM0065AFZZ	Cassette Guide (L)	AB	144- 	PREFL0066AFZZ	Reflection Paper	**
43	PGIDM0066AFZZ	Cassette Guide (R)	AB	144- 	LANGT0071AFFW	Suspension Metal	AB
44	PGUMM0111AF00	Cushion Rubber	AB	146	LANGZ0003AFFW	Bracket, Mounting	AB
45	RHEDF0055AFZZ	Head, Playback	AR		LHLDW1075AFZZ	Nylon Band	AA
46	RMOTM0080AFZZ	Motor	AV		LX-BZ0223AFFD	Screw (For Transport Protection)	AA
47	RPLU-0076AFZZ	Solenoid	AL		LX-BZ0236AFFE	Bolt with Spring and Flat Washers, ϕ 5 x 14mm	AA
48	LX-WZ5012AGZZ	Washer	AA		LX-BZ0260AFFE	Bolt with Spring and Flat Washers, ϕ 5 x 8mm	AB
49	LX-WZ5018AGZZ	Washer	AA		XNESD50-45000	Nut, ϕ 5	AA
50	LX-WZ5020AGZZ	Washer	AA				
51	LX-WZ9057AFZZ	Spacer, Flywheel	AA				

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
CNP1	XWHSD50-05000	Washer, $\phi 5$	AA	SW102	QSW-S0226AFZZ	Switch, Band Selector	AE
	QCNCM0503SGZZ	Connector, 5 pin	AD	SW401	QSW-F0126AFZZ	Switch, Radio/Tape Selector	AE
CNP2	QCNCM233DAFZZ	Connector, 4 pin		SW402	QSW-L0054AFZZ	Switch, Tape Stop Detect	AE
CNS1	QCNW-0376AFZZ	Wiring Wires with Connector (5 pin)	AF	SW403	QSW-F0127AFZZ	Switch, Tape Eject	AD
CNS2	QCNW-0340AFZZ	Wiring Wires with Connector (4 pin)	**	PL101	RLMPM0069AFZZ	Lamp, Dial	AD
	QCNW-0342AFZZ	Speaker Cord, 3.5 m	AN	SO101	QSOCZ0015AFZZ	Antenna Socket	AD
	QCNW-0322AFZZ	Earth Cord	AC	SO104	QS OCD0271AFZZ	Speaker Socket	AG
	QFS-A232BAFNH	Fuse	AC		SPAKA0520AFZZ	Packing Add	**
	QFSHJ1058AFZZ	Fuse Holder with Coil	AM		SPAKC1152AFZZ	Packing Case	**
SW101	QSW-P1074AFZZ	Switch, FM Stereo/Mono Selector	AF		TINSE0561AFZZ	Operation Manual	**
					TTAG-0066AFZZ	Tag, ANSS	**
					SSAKH0097AFZZ	Polyethylene Bag, Set	AA